



PATENT
Attorney Docket No. EXT-072C2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Boles *et al.*
SERIAL NO.: 10/721,157 GROUP NO.: Not Yet Assigned
FILING DATE: November 25, 2003 EXAMINER: Not Yet Assigned
TITLE: Detection of Non-Viral Organisms with SRP RNA

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. §1.97 and §1.98, Applicants hereby make of record the patents, published patent applications, and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. In accordance with the U.S. Patent and Trademark Office's partial waiver of the requirement under 37 C.F.R. §1.98(a)(2)(i), only copies of foreign patent documents and non-patent publications are enclosed. Also, in accordance with the provisions of 37 C.F.R. §1.98(d), copies of references B1 and C1 - C12 are not enclosed, as these references were previously cited by or submitted to the U.S. Patent and Trademark Office in prior U.S. Patent Application Serial Nos. 09/336,609 and 10/024,944, filed June 18, 1999, and December 19, 2001, respectively, that are relied on in the instant application for an earlier effective filing date under 35 U.S.C. §120.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- the requisite Statement is below, **OR**

Information Disclosure Statement

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- the requisite fee under 37 C.F.R. 1.17(p), namely \$180.00, is included herein, or
- (3) after the mailing date of a final action or notice of allowance but before the payment of the issue fee, AND
- the requisite Statement is below, AND
- the requisite petition fee under 37 C.F.R. 1.17(p), namely \$180.00 is included herein.

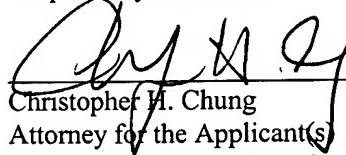
It is respectfully requested that each of the patents, published patent applications, and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

STATEMENT

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked on the previous page and the Statement is required]:

- 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual** designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the Information Disclosure Statement.

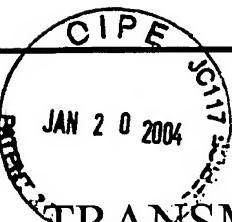
Respectfully submitted,


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TRANSMITTAL FORM

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Serial Number</td> <td style="width: 50%;">10/721,157</td> </tr> <tr> <td>Filing Date</td> <td>November 25, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Boles</td> </tr> <tr> <td>Group Art Unit</td> <td>Not Yet Assigned</td> </tr> <tr> <td>Examiner Name</td> <td>Not Yet Assigned</td> </tr> <tr> <td>Attorney Docket No.</td> <td>EXT-072C2</td> </tr> <tr> <td>Patent No.</td> <td>Not Yet Assigned</td> </tr> <tr> <td>Issue Date</td> <td>Not Yet Assigned</td> </tr> </table>	Application Serial Number	10/721,157	Filing Date	November 25, 2003	First Named Inventor	Boles	Group Art Unit	Not Yet Assigned	Examiner Name	Not Yet Assigned	Attorney Docket No.	EXT-072C2	Patent No.	Not Yet Assigned	Issue Date	Not Yet Assigned
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ENCLOSURES (check all that apply)

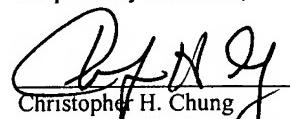
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Check Attached <input type="checkbox"/> Copy of Fee Transmittal Form	<input type="checkbox"/> Copy of Notice to File Missing Parts of Application <input type="checkbox"/> Formal Drawing(s)	<input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences <input type="checkbox"/> Appeal Brief (in triplicate)
<input type="checkbox"/> Amendment/Response <input type="checkbox"/> Preliminary <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Letter to Official Draftsperson including Drawings [Total Sheets ____]	<input type="checkbox"/> Request For Continued Examination (RCE) Transmittal <input type="checkbox"/> Power of Attorney (Revocation of Prior Powers) <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application	<input type="checkbox"/> Status Inquiry <input checked="" type="checkbox"/> Return Receipt Postcard <input checked="" type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8 (1 pg.) <input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8 <input type="checkbox"/> Additional Enclosure(s) (please identify below)
<input type="checkbox"/> Petition for Extension of Time	<input type="checkbox"/> Small Entity Statement <input type="checkbox"/> CD(s) for large table or computer program	
<input checked="" type="checkbox"/> Information Disclosure Statement (2 pgs.) <input checked="" type="checkbox"/> Form PTO-1449 (9 pgs.) <input checked="" type="checkbox"/> Copies of IDS Citations (B2-B29; C13-C64)	<input type="checkbox"/> Amendment After Allowance <input type="checkbox"/> Request for Certificate of Correction <input type="checkbox"/> Certificate of Correction (in duplicate)	
<input type="checkbox"/> Certified Copy of Priority Document(s)		
<input type="checkbox"/> Sequence Listing submission <input type="checkbox"/> Paper Copy/CD <input type="checkbox"/> Computer Readable Copy <input type="checkbox"/> Statement verifying identity of above		

CORRESPONDENCE ADDRESS

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SIGNATURE BLOCK

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CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8

I hereby certify that this correspondence, and any document(s) referred to as enclosed herein, is/are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 15th day of January, 2004.

Jennifer L. Cioffi

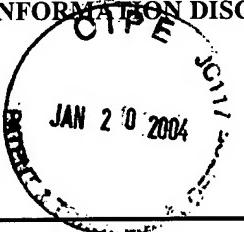
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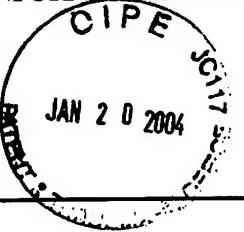
Sir:

Submitted herewith are the following:

Transmittal Form (1 page),
Information Disclosure Statement (2 pages),
Form PTO-1449 (9 pages),
Copies of References Cited (B2-B29, and C13-C64),
Return Receipt Postcard, and
Certificate of First Class Mailing (1 page).

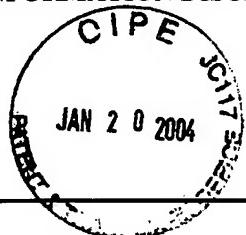
FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT 				ATTORNEY DOCKET NO.: EXT-072C2 APPLICANT(S): Boles et al. SERIAL NO.: 10/721,157 FILING DATE: November 25, 2003 GROUP: Not Yet Assigned			
U.S. PATENT DOCUMENTS							
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A1	4,851,330	07/25/89	Kohne			
	A2	4,868,105	09/19/89	Urdea et al.			
	A3	5,216,143	06/01/93	Hogan et al.			
	A4	5,237,016	08/17/93	Ghosh et al.			
	A5	5,288,611	02/22/94	Kohne			
	A6	5,478,893	12/26/95	Ghosh			
	A7	5,541,308	07/30/96	Hogan et al.			
	A8	5,547,842	8/20/96	Hogan et al.			
	A9	5,567,587	10/22/96	Kohne			
	A10	5,593,841	1/14/97	Hogan et al.			
	A11	5,595,874	01/21/97	Hogan et al.			
	A12	5,601,984	2/11/97	Kohne			
	A13	5,674,684	10/07/97	Hogan et al.			
	A14	5,677,127	10/14/97	Hogan et al.			
	A15	5,677,128	10/14/97	Hogan et al.			
	A16	5,677,129	10/14/97	Hogan et al.			
	A17	5,679,520	10/21/97	Hogan et al.			
	A18	5,681,698	10/28/97	Hogan et al.			
	A19	5,683,872	11/4/97	Rudert et al.			
	A20	5,683,876	11/4/97	Hogan			
	A21	5,688,645	11/18/97	Kohne			
	A22	5,691,149	11/25/97	Hogan et al.			
EXAMINER				DATE CONSIDERED			

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U.S. PATENT DOCUMENTS							
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A23	5,693,468	12/02/97	Hogan et al.			
	A24	5,693,469	12/02/97	Hogan			
	A25	5,714,321	02/03/98	Hogan			
	A26	5,714,324	02/03/98	Kohne			
	A27	5,871,923	02/16/99	Moehle			
	A28	4,034,428	07/23/91	Hoffman et al.			
	A29	4,766,062	08/23/88	Diamond et al.			
	A30	4,766,064	08/23/88	Williams et al.			
	A31	4,829,098	05/09/89	Hoffman et al.			
	A32	5,006,473	4/9/91	Bouma et al.			
	A33	5,176,966	01/05/93	Epp et al.			
	A34	5,215,882	6/1/93	Bahl et al.			
	A35	5,310,650	05/10/94	McMahon et al.			
	A36	5,362,859	11/08/94	Zale			
	A37	5,478,893	12/26/95	Ghosh			
	A38	5,482,836	01/09/96	Cantor et al.			
	A39	5,482,863	01/09/96	Knobel			
	A40	5,518,900	05/21/96	Nikiforov et al.			
	A41	5,556,598	9/17/96	Raybuck et al.			
	A42	5,560,811	10/1/96	Briggs et al.			
	A43	5,605,662	02/25/97	Heller et al.			
	A44	5,610,287	03/11/97	Nikiforov et al.			
	A45	5,639,603	6/17/97	Dower et al.			
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U.S. PATENT DOCUMENTS							
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A46	5,641,658	6/24/97	Adams et al.			
	A47	5,679,524	10/21/97	Nikiforov et al.			
	A48	5,679,773	10/21/97	Holmes			
	A49	5,723,344	3/3/98	Mabilat et al.			
	A50	5,741,639	04/21/98	Ensing et al.			
	A51	5,747,248	5/5/98	Collins			
	A52	5,756,291	5/26/98	Griffin et al.			
	A53	5,762,876	06/09/98	Lincoln et al.			
	A54	5,932,711	08/03/99	Boles et al.			
	A55	6,027,890	2/22/00	Ness et al.			
	A56	6,129,828	10/10/00	Sheldon et al.			
	A57	6,180,770	01/30/01	Boles et al			
	A58	6,214,187	04/10/01	Hammond et al.			
	A59	6,238,927	5/29/01	Abrams et al.			
	A60	6,251,660	6/26/01	Muir et al.			
	A61	2002/0090641	7/11/02	Yasuda et al.			
	A62	2002/0119480	8/29/02	Weir et al.			
	A63	2002/0123060	9/05/02	Boles et al.			
	A64	2002/0197614	12/26/02	Weir et al.			
	A65	2003/0138774	7/24/03	Jones et al.			
	A66	2003/0170635	9/11/03	Hammond et al.			
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FORM PTO - 1449

INFORMATION DISCLOSURE STATEMENT



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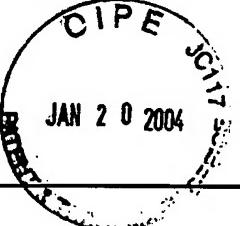
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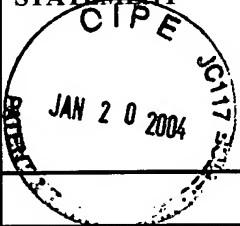
GROUP: Not Yet Assigned

FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
	B1	JP H3 [1991]-47097(A)	02/28/91	JP					
	B2	EP 0 671 626 A1	9/13/95	EP					
	B3	EP 0 703 296 A1	3/27/96	EP					
	B4	WO 90/07582	7/12/90	PCT					
	B5	WO 91/08307	6/13/91	PCT					
	B6	WO 92/15712	9/17/92	PCT					
	B7	WO 94/01446	1/20/94	PCT					
	B8	WO 94/06937	3/31/94	PCT					
	B9	WO 94/16108	7/21/94	PCT					
	B10	WO 94/20831	9/15/94	PCT					
	B11	WO 97/27327	7/31/97	PCT					
	B12	WO 97/31256	8/28/97	PCT					
	B13	WO 97/35033	9/25/97	PCT					
	B14	WO 97/41256	11/6/97	PCT					
	B15	WO 97/45554	12/4/97	PCT					
	B16	WO 97/45721	12/4/97	PCT					
	B17	WO 98/39351	11/09/98	PCT					
	B18	WO 98/51823	11/19/98	PCT					
	B19	WO 99/26724	6/3/99	PCT					
	B20	WO 99/30145	6/17/99	PCT					
	B21	WO 99/45374	9/10/99	PCT					
	B22	WO 99/66078	12/23/99	PCT					
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FOREIGN PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
	B23	WO 99/66079	12/23/99	PCT					
	B24	WO 00/20643	4/13/00	PCT					
	B25	WO 00/50644	8/31/00	PCT					
	B26	WO 00/50870	8/31/00	PCT					
	B27	WO 00/60118	10/12/00	PCT					
	B28	WO 00/60120	10/12/00	PCT					
	B29	WO 01/53817	7/26/01	PCT					
OTHER ART, JOURNAL ARTICLES, ETC.									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
C1	Brown <i>et al.</i> , "Genetic Selection and DNA Sequences of 4.5S RNA Homologs," 1717(12): 6517-6520 (1989).								
C2	Buchardt <i>et al.</i> , "Peptide nucleic acids and their potential applications in biotechnology," <u>Trends in Biotechnology</u> , 11(9):384-6 (1993).								
C3	Griffin <i>et al.</i> , "Studies and Sequences of Escherichia Coli 4.5S RNA," <u>Journal of Biological Chemistry</u> , 250(14):5426-5437 (1975).								
C4	Hsu <i>et al.</i> , "Cloning and sequence analysis of the Escherichia coli 4.5S RNA gene," <u>J Mol. Biol.</u> 178(3):509-31 (1984).								
C5	Kenny <i>et al.</i> , "Mutation Typing Using Electrophoresis and Gel-Immobilized Acrydite™ Probes," <u>Bio Techniques</u> , 25(3):516-521 (1998).								
C6	Larsen <i>et al.</i> , "SRP-RNA Sequence Alignment and Secondary Structure," <u>Nucleic Acids Research</u> , 19(2):209-215 (1991).								
C7	Michaeli <i>et al.</i> , "The 7SL RNA homologue of <i>Trypanosoma brucei</i> is closely related to mammalian 7SL RNA," <u>Molecular and Biochemical Parasitology</u> , 51:55-64 (1992).								
C8	Nakamura <i>et al.</i> , "Conserved Residues and Secondary Structure Found in Small Cytoplasmic RNAs from Thirteen Bacillus Species," <u>Nucleic Acids Research</u> , 20(19):5227-5228 (1992).								
C9	Nakamura <i>et al.</i> , "Small Cytoplasmic RNA of <i>Bacillus Brevis</i> : Transcriptional and Phylogenetic Analysis," <u>Microbiology</u> , 140:493-498 (1994).								
EXAMINER				DATE CONSIDERED					

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OTHER ART, JOURNAL ARTICLES, ETC.		
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
C10	Poritz <i>et al.</i> , "An <i>E. coli</i> Ribonucleoprotein Containing 4.5S RNA Resembles Mammalian Signal Recognition Particles," <u>Science</u> , 250:1111-1117 (1990).	
C11	Samuelsson, "A Mycoplasma protein homologous to mammalian SRP54 recognizes a highly conserved domain or SRP RNA," <u>Nucleic Acids Research</u> , 20(21):5763-5770 (1992).	
C12	Zwieb <i>et al.</i> , "SRPDB (Signal Recognition Particle Database)," <u>Nucleic Acids Research</u> , 28(1):171-172 (2000).	
C13	Baba <i>et al.</i> , "Base-specific separation of oligodeoxynucleotides by capillary affinity gel electrophoresis," <u>Electrophoresis</u> , 19:433-438 (1998).	
C14	Baba <i>et al.</i> , "Specific Base Recognition of Oligodeoxynucleotides by Capillary Affinity Gel Electrophoresis Using Polyacrylamide-Poly(9-vinyladenine) Conjugated Gel," <u>Anal. Chem.</u> , 64:1920-1925 (1992).	
C15	Bartel <i>et al.</i> , "HIV-1 Rev Regulation Involves Recognition of Non-Watson-Crick Base Pairs in Viral RNA," <u>Cell</u> , 67:529-536 (1991).	
C16	Biagioli <i>et al.</i> , "A New method for the Preparation of DNA-Cellulose," <u>Analytical Biochemistry</u> , 89: 616-619 (Academic Press, Inc.) (1978).	
C17	Blajchman <i>et al.</i> , "Bacteria in the Blood Supply: An Overlooked Issue in Transfusion Medicine," <u>Blood Safety: Current Challenges</u> , 8:213-228 (1992).	
C18	Bock <i>et al.</i> , "Selection of Single-Stranded DNA Molecules that Bind and Inhibit Human Thrombin," <u>Nature</u> , 355:564-566 (1992).	
C19	Botchkarev <i>et al.</i> , "Neurotrophin-3 Involvement in the Regulation of Hair Follicle Morphogenesis," <u>J. Inv. Dermatology</u> , 111(3):279-285 (1998).	
C20	Brecher <i>et al.</i> , "The use of a chemiluminescence-linked universal bacterial ribosomal RNA gene probe and blood gas analysis for the rapid detection of bacterial contamination in white cell-reduced and non-reduced platelets," <u>Transfusion</u> , 33(6):450-457 (1993).	
C21	Brecher <i>et al.</i> , "Platelet bacterial contamination and the use of a chemiluminescence-linked universal bacterial ribosomal RNA gene probe," <u>Transfusion</u> , 34(9):750-755 (1994).	
C22	Defrancesco, "A Captivating Technology," <u>The Scientist</u> , 13(5):16 (1999).	
C23	Ellington <i>et al.</i> , "In Vitro Selection of RNA Molecules that Bind and Inhibit Human Thrombin," <u>Nature</u> , 346:818-822 (1990).	
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OTHER ART, JOURNAL ARTICLES, ETC.		
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
C24	Famulok, "Molecular Recognition of Amino Acids by RNA-Aptamers: An L-Citrulline Binding RNA Motif and Its Evolution into an L-Arginine Binder," <u>J. Am. Chem. Soc.</u> , 116:1698-1706 (1994).	
C25	Forbes <i>et al.</i> , "Processing Specimens for Bacteria," <u>Bacteriology</u> , 21:265-281.	
C26	Freier <i>et al.</i> , "The ups and downs of nucleic acid duplex stability: structure-stability studies on chemically-modified DNA:RNA duplexes," <u>Nucleic Acids Research</u> , 25(22):4429-4443 (1997).	
C27	Giver <i>et al.</i> , "Selection and Design of High-Affinity RNA Ligands for HIV-1 Rev," <u>Gene</u> , 137:19-24 (1993).	
C28	Igloi, "Variability in the stability of DNA-peptide nucleic acid (PNA) single-base mismatched duplexes: Real-time hybridization during affinity electrophoresis in PNA-containing gels," <u>Proc. Natl. Acad. SCI. USA</u> , 95:8562-8567 (1998).	
C29	Iyer <i>et al.</i> , "Accelerated Hybridization of Oligonucleotides to Duplex DNA," <u>J. Biol. Chem.</u> , 270(24): 14712-14717 (1995).	
C30	Jarrett, "Affinity Chromatography with Nucleic Acid Polymers," <u>Chromatography</u> , 618:315-339 (1993).	
C31	Jenison <i>et al.</i> , "High-Resolution Molecular Discrimination by RNA," <u>Science</u> , 263: 1425-1428 (1994).	
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